

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 12262441	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/AU2004/000798	International filing date (day/month/year) 18 June 2004	(Earliest) Priority Date (day/month/year) 20 June 2003
Applicant HOWARD FLOREY INSTITUTE OF EXPERIMENTAL PHYSIOLOGY & MEDICINE et al		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. Certain claims were found unsearchable (See Box No. II).

3. Unity of invention is lacking (See Box No. III).

4. With regard to the title,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the abstract,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No.

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b. none of the figures is to be published with the abstract.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU2004/000798

Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
 - a. type of material
 - a sequence listing
 - table(s) related to the sequence listing
 - b. format of material
 - in written format
 - in computer readable form
 - c. time of filing/furnishing
 - contained in the international application as filed
 - filed together with the international application in computer readable form
 - furnished subsequently to this Authority for the purposes of search
2. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

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International application No.

PCT/AU2004/000798

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. 7: C07K 14/62, C07K 14/64, C07K 14/65, C07K 14/575, A61K 38/22, A61K 38/28, A61K 38/30, A61P 3/10, A61P 15/00, A61P 15/08, A61P 15/14, A61P 19/00, A61P 35/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 STN File WPIDS sequence

SVIKL[CS]GRELVRAQIAI[CS]G[MC]S|VRLCGREFIRAVIFTCGGRW|LCGSHLVEAL and Keywords: cyclic, modif?, insulin or relaxin or IGF? or INSL?

STN Files MEDLINE, CA, WPIDS, BIOSIS keywords: Relaxin, Insulin, IGF, INSL?, Cyli?, B(w) Chain

DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<i>International Journal of Peptide & Protein Research</i> (1982), 20(3), 207-17; Büllesbach, Erika <i>et al.</i> "Preparation of partially protected des-alanineB30-insulin-B-chain-disulfide and its use in semisynthesis" See Figure 1	
A	<i>Chem. Pept. Proteins, Proc. USSR-FRG Symp.</i> , 3rd (1982), Meeting Date 1980, 327-35; Büllesbach, Erika E <i>et al</i> "Semisynthesis with insulin-B-chain" See figure 2	
A	<i>Doklady Bolgarskoi Akademii Nauk</i> (1976), 29(11), 1641-4, Ivanov, Ch.; <i>et al.</i> "Structure elucidation of the thiolated and oxidized B insulin chain by Sephadex gel molecular weight determination" See page 1644, first full paragraph	

 Further documents are listed in the continuation of Box C See patent family annex

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

16 August 2004

Date of mailing of the international search report

20 AUG 2004

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